Na	ıme	Period Date		
l	Jnit Hando 4 10	Lesson 6: Trends in Storm Data		
Purpose:		Observe data maps of tornadoes and hurricanes/typhoons and make inferences about these storms.		
	Guiding Questions:	What patterns exist within data of severe storms?		
ех	planation to	d 1. Answer the following questions with a <b>True</b> or <b>False</b> . Write a short o justify your choice. For the purpose of this activity, the term <i>tornado</i> will orm of a rotating column of air (e.g. a tornado or waterspout).		
1.	Tornadoes fall and wir	mostly occur during the spring and summer; they rarely occur during the nter.		
2.	The stronge	est tornadoes (EF5) occur mostly in Tornado Alley and Dixie Alley.		
3.	Tornadoes	frequently move from southwest to northeast.		
4.	Tornadoes	have occurred in all 50 US states.		
5.	Tornadoes	never occur in big cities.		
6.	Tornadoes ocean.	mostly occur on land but some have occurred over water and in the		

**Data Analysis 1.** Use the Tornado History Project map to seek data to help you answer the questions above. The questions are written again in the space below. Take screenshots of tornadoes and their paths to help support the answers to the questions. For the purpose of this activity, the term *tornado* will refer to any form of a rotating column of air (e.g. a tornado or waterspout).

1. Tornadoes mostly occur during the spring and summer; they rarely occur during the fall and winter.

2. The strongest tornadoes (EF5) occur mostly in Tornado Alley and Dixie Alley.

**3.** Tornadoes frequently move from southwest to northeast.

4. Tornadoes have occurred in all 50 US states.

5. Tornadoes never occur in big cities.

**6.** Tornadoes mostly occur on land but some have occurred over water and in the ocean.

**Getting Started 2.** Answer the following questions about hurricanes/typhoons/cyclones by writing **True** or **False**. Write a short explanation to justify your choice. For the purpose of this activity, the term *hurricane* will refer to any massive, rotating storm system form in oceans (e.g. hurricanes, typhoons, and cyclones).

- 1. Hurricane strength decreases after landfall.
- 2. Hurricanes, after landing in the contiguous United States, tend to curve right and move upward along the east coast.

3. No hurricanes have occurred in the North Atlantic Ocean.

**4.** No tropical storms/depressions have occurred in Canada.

5. No hurricane or tropical storm/depression has crossed the equator.

6. The southeast Pacific and Southwest Atlantic have seen very few hurricanes.

7. Hurricanes in the northern hemisphere tend to move from east to west. Hurricanes in the southern hemisphere tend to move from west to east.

**Data Analysis 2.** Use the World Hurricane, Typhoon, Cyclone, and Tropical Storm Map to seek data to help you answer the questions above. The questions are written again in the space below. Take screenshots of hurricanes and their paths to help support the answers to the questions. For the purpose of this activity, the term *hurricane* will refer to any massive, rotating storm system form in oceans (e.g. hurricanes, typhoons, and cyclones).

1. Hurricane strength decreases after landfall.

2. Hurricanes, after landing in the contiguous United States, tend to curve right and move upward along the east coast.

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**Exploration**. Continue to explore storms on the tornado and hurricane maps. What other questions do you have about storms that you can answer using the data maps? Write your questions in the space below and answer them using data from the maps.